What is claimed is:

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- 1. A cleaning method of treatment equipment, comprising: a step of, while supplying a cleaning gas containing a substance directly complexing prescribed metal in a treatment chamber of the treatment equipment that treats a substrate, exhausting the cleaning gas from the treatment chamber.
  - 2. The cleaning method of claim 1:

wherein the substance of directly complexing is carboxylic acid or a derivative of carboxylic acid.

3. The cleaning method of claim 2:

wherein the carboxylic acid or the derivative of carboxylic acid is a substance expressed by the following equations: RCOOH, RCOOR', or  $R(COOH)_n$  (R, R' are hydrocarbon group capable of containing halogen atom, n being an integer).

4. The cleaning method of claim 3:

wherein the substance for directly complexing is
trifluoroacetic acid.

- 5. The cleaning method of claim 1:

  wherein the treatment equipment is film formation equipment.
  - 6. The cleaning method of claim 1: wherein the prescribed metal is copper.
  - 7. The cleaning method of claim 1: wherein the cleaning gas contains an additive
- wherein the cleaning gas contains an additive that promotes complexing of the prescribed metal.
  - 8. The cleaning method of claim 1: wherein the additive is water vapor.
  - 9. A cleaning method of treatment equipment, comprising

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the steps of:

supplying, in a treatment chamber of treatment equipment treating a substrate, a cleaning gas containing a substance directly complexing prescribed metal; and

exhausting the cleaning gas from the treatment chamber.

10. The cleaning method of claim 9:

wherein the steps of supplying the cleaning gas and of exhausting the cleaning gas are alternately repeated.

11. Treatment equipment, comprising:

a treatment chamber for treating a substrate;

a susceptor disposed in the treatment chamber and on which the substrate is disposed;

a treatment gas supply system for supplying, in the treatment chamber, a treatment gas containing copper as a component;

an evacuation system for evacuating the inside of the treatment chamber; and

a TFA supply system for supplying trifluoroacetic acid in the treatment chamber.

12. The treatment equipment of claim 11:

wherein the treatment gas supply system comprises a treatment agent tank, treatment gas supply piping connecting the treatment chamber and the treatment agent tank and a treatment agent vaporizer disposed in the middle of the treatment gas supply piping;

wherein the TFA supply system comprises a TFA tank and a TFA supply piping connecting the TFA tank and the treatment gas supply piping, the treatment gas supply piping being downstream

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the treatment agent vaporizer in a direction of treatment gas movement.

- 13. The treatment equipment of claim 12:
- wherein at least in a portion downstream the vaporizer of the treatment agent supply piping a heater is disposed.
  - 14. The treatment equipment of claim 13:

wherein the treatment chamber is furnished with a heater to heat a wall surface of the treatment chamber.

- 15. The treatment equipment of claim 12:
- wherein the treatment agent tank is a tank containing a treatment agent containing copper as a component.
- 16. The treatment equipment of claim 11, further comprising:
- a supply system for supplying an additive that promotes complexing of copper.